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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/035,320	11/08/2001	Roman M. Barabolak	112703-211	2531	
29156 7	590 02/07/2005	•	EXAMINER		
BELL, BOYD & LLOYD LLC			KRASS, FREDERICK F		
P. O. BOX 1135 CHICAGO, IL 60690-1135			ART UNIT	PAPER NUMBER	
			1614	1614	
			DATE MAILED: 02/07/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/035,320	BARABOLAK ET AL.				
Office Action Summary	Examiner	Art Unit				
	Frederick F. Krass	1614				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ - Responsive to communication(s) filed on 04 Oc	ctober 2004.					
,	action is non-final.	•				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-24</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-24</u> is/are rejected.						
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner	·.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:		n-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior	•	ed in this National Stage				
application from the International Bureau * See the attached detailed Office action for a list of						
See the attached detailed Office action for a list of	of the certified copies flot receive	u.				
Attachment(s)						
) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:					

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Previous Rejections

Unless specifically repeated hereinunder, all previous rejections are withdrawn.

New Matter Rejection

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-24 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

This is a "new matter" rejection.

Applicant states that support for the amendments made to claims 1, 6 and 15 requiring "three distinct compounds" can be found at page 10, lines 20-24 of the specification, wherein an emulsion containing triclosan, (hydroxylated) lecithin and CPC (cetyl pyridinium chloride) is disclosed. (Remarks, page 5, ¶ 2).

The specification as originally filed does not support such language, either explicitly or implicitly. The terms "emuslifier" and "surfactant" are not mutually exclusive, as the discussion provided at pages 3 and 4 of the previous Office action regarding WO 95/17159 demonstrates. The terms are merely functional descriptors and the state of the prior art is such that the very same compound can be described by two different authors as an "emulsifier" on one hand and a "surfactant" on the other. See, for example, Chemical Abstracts 119:158564 and Chemical Abstracts 116:39909, cited on the attached form 892. In

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the title of the former Tween 20 is termed an "emusifer", while in the latter it is termed a "surfactant" - this

despite the fact that the utilities involved are virtually identical.

The only surfactant disclosed by the instant specification is CPC; the only emulsifier disclosed is hydroxylated lecithin. Page 11, lines 25 and 26 of the specification vaguely state that "other ionic and non-ionic surfactants may also be employed", but none are specified. Lecithin is also mentioned at page 7, line 14, but as a chewing gum base component, not a soluble emulsifier for triclosan. Given the state of the art discussed above, the mere disclosure by Applicant of two specific compounds as examples of "emulsifiers" and "surfactants" can hardly be the basis for implicit support of the broad conceptual language added to the instant claims.

Obviousness Rejections (New, Necessitated by Amendment)

1) Claims 1-5, 15, 19-21 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 95/17159.

The prior art has been discussed previously in detail at pages 3 and 4 of the previous Office action, and differs from the instant claims as now amended insofar as it does not specifically disclose a mixture three distinct compounds comprising an emulsifier, triclosan and a surfactant.

As discussed in the previous action at page 4, the cationic antimicrobial (e.g., CPC) of the prior art functions simultaneously as both an emulsifier and a surfactant. The prior art clearly teaches that "mixtures of cationic antimicrobials" may be used: see page; 4, lines 27 and 28. It would have been obvious to have followed this clear teaching to provide a composition comprising a combination of cationic antimicrobials, e.g., a mixture of CPC and dodecyl trimethyl ammonium bromide. This position is also fully consistent with established precedent, which holds that it is generally obvious to combine two compositions, each of which is taught by the prior art to be useful for the same purpose, in order to form a third composition to be used for the very same purpose. In re Kerkhoven, 205 U.S.P.Q. 1069 (CCPA 1980). The idea for combining said compositions flows logically from their having been individually taught in the prior art. In re Crockett, 126 USPQ 186, 188 (CCPA 1960). A mixture of two cationic antimicrobials

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(each of which is simultaneously both a "surfactant" and an "emulsifier") and triclosan would be a "liquid mixture comprising three distinct compounds comprising an emulsifier, triclosan and a surfactant" as instantly claimed.

2) Claims 1, 6-8, 12-18 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hill (USP 5,380,530).

The prior art has been discussed previously in detail at pages 5 and 6 of the previous Office action, and differs from the instant claims as now amended insofar as it does not specifically disclose a mixture three distinct compounds comprising an emulsifier, triclosan and a surfactant.

Applicant argues:

Hill fails to provide any motivation for [the now claimed] combination. Although the Office action indicates that Hill discloses the combination of certain surfactants and/or emulsifiers at col. 13, line 49, the referenced passage is limited to such mixtures as being advantageous when used in combination with polydimethylsiloxanes for use in coating teeth and oral surfaces to form smooth surfaces that interfered with plaque adherence. It is not apparent from this passage that there would be any advantage to the use of the same mixtures with chemically distinct compounds, such as triclosan (a derivatized diphenylether comound), so a to provide any motivation for the combination of an emulsifier and chemically distinct surfactant with triclosan as in Applicant's invention. (Remarks, page 6, ¶ 3).

The examiner does not agree. The prior art clearly discloses mixtures of surfactants, emulsifiers and polydimethylsiloxanes at col. 13, line 49. The instant claims, which employ the open-ended transitional phrase "comprising", do not exclude the presence of additional ingredients such as polydimethylsiloxanes. Thus, to arrive at the instantly claimed mixtures, all that is necessary is to select triclosan from the list of optional therapeutic agents provided at col. 15 of the prior art. Applicant's arguments to the contrary notwithstanding, there is in fact an "advantage" to including triclosan in the prior art compositions. As Applicant has pointed out, the section referenced by the examiner is specifically concerned with coating teeth and oral surfaces to form smooth surfaces that interfere with plaque adherence. The advantage of including an antiplaque agent (triclosan) for the purpose of further inhibiting plaque formation on those smooth surfaces is self-evident, and it would have been obvious to have used triclosan for that art-recognized purpose. This position is fully consistent with established precedent. See

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for example In re Dial, 326 F.2d 430, 432 (CCPA 1964). (Holding that it would have been obvious to have combined four individual stabilizers from three different references in order to obtain the art-recognized stabilizing effects expected for each individual component, absent evidence in the record that Applicant's particular combination of stabilizers was more effective at inhibiting decomposition than any single member of that combination).

3) Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over WO 95/17159 in view of Gaffar (USP 5,472,685).

The primary reference has been discussed in detail above and in the previous Office action, and differs from the instant claim insofar as it discloses mouthwashes, not dentrifices such toothpastes and gels.

It is well-known in the art to administer oral care agents, and antiplaque agents such as triclosan in particular, in various types of formulations. The motivation to use one form over another, e.g. a dentrifice over a mouthwash, arises from the desire to tailor an oral hygiene regimen to the individual preferences of particular users. It is well within the ordinary skill of the oral care art to adjust between different formulations for use in this manner. See the secondary reference at col. 1, lines 12-25; the passage spanning col. 2, line 43 to col. 3, line 25; col. 6, lines 13-35; and the passage spanning col. 6, line 57 to col. 7, line 43. The secondary reference differs from the instant claims insofar as it does not specifically disclose an emulsion comprising triclosan, an emulsifier and a surfactant.

It would have been obvious to have prepared the triclosan/cationic antimicrobial mixtures of the primary reference in dentrifice (rather than mouthwash) form, motivated by the desire to tailor administration to the particular desires of individual users. (Certain users will prefer dentrifices because they permit better control over application to particular plaque forming sites within the teeth, for example).

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Obviousness Rejection (Previous)

Claims 6 and 9-11 were rejected under 35 U.S.C. 103(a) as being unpatentable over Hill (USP

5,380,530) in view of WO 95/17159.

This rejection is maintained.

Applicant has argued that this rejection is inapposite because the primary reference is not

sufficient to reject the base claims on its own, and thus cannot be used in combination with another

reference to reject dependent claims. (Remarks, page 7, ¶ 1). The examiner has maintained the base

rejection over the primary reference, however (see subsection "1)" of the "Anticipation" section supra),

and thus maintains this derivative rejection as well, for the reasons already of record.

Obviousness-Type Double Patenting Rejection

Claims 1-22 were rejected under the judicially created doctrine of obviousness-type double

patenting as being unpatentable over claims 1-8 of U.S. Patent No. 6,436,369, taken in view of Hill (USP

5,380,530).

This rejection is maintained.

Applicant has chosen to defer submission of a terminal disclaimer until such time as allowable

subject matter is indicated. (Remarks, p. 7, ¶ 2).

Action is Final, Necessitated by Amendment

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office

action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of

the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from

the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date

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of this final action and the advisory action is not mailed until after the end of the THREE-MONTH

shortened statutory period, then the shortened statutory period will expire on the date the advisory action

is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX

MONTHS from the date of this final action.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Frederick F. Krass whose telephone number is 571-272-0580. The examiner's schedule is

as follows:

Monday: 10:30AM- 7PM;

Tuesday: 10:30AM - 7PM;

Wednesday: off;

Thursday: 10:30AM- 7PM; and

Friday: 10:30AM-7PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Christopher Low can be reached at 571-272-0951. The fax phone number for the organization where this

application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

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at 866-217-9197 (toll-free).

Frederick Krass Primary Examiner

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